

What is claimed is:

1. A process kit comprising:
  - a cylindrical outer flange having a first end;
  - a body extending radially inward from the first end of the cylindrical outer flange;
  - a cylindrical inner flange extending downward from a lower surface of the body;
  - an inner ring disposed inward of the body and having a common upper surface therewith; and
  - a bridge coupling the inner ring to the body, wherein the cylindrical inner flange, the cylindrical outer flange, the inner ring, the bridge and the body form a single piece cover ring.
2. The process kit of claim 1, wherein the cylindrical outer flange is fabricated from a ceramic material.
3. The process kit of claim 1, wherein the cylindrical outer flange extends farther from the body relative to the cylindrical inner flange.
4. The process kit of claim 1, wherein the cylindrical inner flange is tapered.
5. The process kit of claim 1, wherein the wherein the inner ring, bridge and body defining a notch formed therebetween extending into the body from the lower surface.
6. The process kit of claim 1 further comprising:
  - a waste ring having an annular lower ring body, the lower ring body comprising:
    - an upper surface adapted to support the body of the cover ring;
    - a lower surface adapted to mount to a substrate support; and
    - an outer surface having a diameter less a diameter of the cylindrical inner flange.

7. The process kit of claim 6, wherein the waste ring further comprises:  
an upper ring body having a lower surface coupled to the upper surface of the lower ring body, wherein at least a portion of the upper ring body extends radially inward of the lower ring body.
8. The process kit of claim 7, wherein the waste ring further comprises:  
a ridge extending upward from an upper surface of the upper ring body.
9. The process kit of claim 8, wherein the ridge further comprises:  
a radially inward facing surface configured to bound an outer edge of a substrate supported by the substrate support; and  
wherein a portion of upper surface of the upper ring body is configured to extend below the substrate.
10. The process kit of claim 6, wherein the lower surface of the upper ring body further comprises:  
an indexing tab extending downward from the lower surface adapted to orient the waste ring to a mating part.
11. The process kit of claim 6 further comprising:  
a pedestal cover having a stepped outer diameter adapted to interface with a portion of the waste ring.
12. The process kit of claim 11, wherein the pedestal cover further comprises:  
four recesses adapted to accept respective fasteners for coupling the pedestal cover to a substrate support.
13. The process kit of claim 11, wherein the pedestal cover is fabricated from stainless steel.
14. The process kit of claim 11, wherein the pedestal cover further comprises:  
a plurality of apertures formed therethrough proximate the stepped edge.

15. The process kit of claim 14 further comprising:  
a plurality of rest buttons, each rest button adapted to mate with a respective one of the apertures formed in the pedestal cover.
16. The process kit of claim 14, wherein each rest button further comprises:  
a hollow tube; and  
an annular flange extending radially outward from the tube.
17. The process kit of claim 14, wherein the rest buttons are fabricated from a ceramic material.
18. A process kit comprising:  
an annular body having an inner diameter end and an outer diameter end;  
a cylindrical outer flange coupled to at a first end to the outer diameter end of the body and extending from the first end to an elevation below the body;  
a tapered cylindrical inner flange extending from the body proximate the inner diameter end to an elevation below the body less than that of the cylindrical outer flange;  
an inner ring coupled to and having a common upper surface with the inner diameter of the body, the inner ring and body defining a gap therebetween;  
a bridge connecting the inner ring and the body, wherein the cylindrical inner flange, the cylindrical outer flange, the inner ring, the bridge and the body comprise a contiguous ceramic cover ring.
19. The process kit of claim 18 further comprising:  
a waste ring having an upper surface adapted to support the body of the cover ring and an indexing tab extending downward from a lower surface adapted to orient the waste ring to a mating part;  
a pedestal cover having a stepped outer diameter adapted to interface with an inner diameter of the waste ring; and  
a plurality of hollow ceramic rest buttons respectively adapted to mate with an aperture of the pedestal cover.

20. A process kit comprising:

a) a ceramic cover ring comprising:

an annular body having an inner diameter end and an outer diameter end;

a cylindrical outer flange coupled to at a first end to the outer diameter end of the body and extending from the first end to an elevation below the body;

a tapered cylindrical inner flange extending from the body proximate the inner diameter end to an elevation below the body less than that of the cylindrical outer flange;

an inner ring coupled to and having a common upper surface with the inner diameter of the body, the inner ring and body defining a gap therebetween; and

a bridge connecting the inner ring and the body;

b) a waste comprising:

an annular lower ring body having an upper surface adapted to support the body of the cover ring, a lower surface adapted to mount to a substrate support and an outer surface having a diameter less a diameter of the cylindrical inner flange;

an upper ring body having a lower surface coupled to the upper surface of the lower ring body, wherein at least a portion of the upper ring body extends radially inward of the lower ring body;

a ridge extending upward from an upper surface of the upper ring body; and

an indexing tab extending downward from the lower surface of the lower ring body and adapted to orient the waste ring to a mating part;

c) a stainless steel pedestal cover comprising:

a stepped outer diameter adapted to interface with a portion of the waste ring;

four recesses adapted to accept a fastener for coupled the pedestal cover to a substrate support; and

a plurality of apertures formed therethrough proximate the stepped edge; and

d) a plurality of ceramic rest buttons, each rest button adapted to mate with a respective one of the apertures formed in the pedestal cover, wherein each rest button further comprises:

a hollow tube; and

an annular flange extending radially outward from the tube.